

Serial No. 10/661,254

IN THE SPECIFICATION

Please amend the specification, as follows:

Amend the paragraph on page 2, lines 13-19, as following:

-- According to the present invention, an optical identification element ~~attached to a chemical, comprises an optical substrate; at least a portion of the substrate having at least one diffraction grating disposed therein, the grating having at least one refractive index pitch superimposed at a common location; the grating providing an output optical signal when illuminated by an incident light signal; the optical output signal being indicative of a code in the substrate; and the chemical being attached to the~~ having a synthesized chemical attached thereto comprises: an optical substrate; at least a portion of said substrate being made of a substantially single material and having at least one diffraction grating embedded therein, said grating having a resultant refractive variation within the substantially single material at a grating location; said grating providing an output optical signal indicative of a code when illuminated by an incident light signal propagating from outside the substrate, said output optical signal being a result of passive, non-resonant scattering from said grating when illuminated by said incident light signal; and the synthesized chemical being attached to at least a portion of said substrate.--